

### SECTION 3. ROAD SAFETY AUDIT PROCESS AND RESULTS SUMMARY

A project Safety Audit Team (SAT) was established in the spring of 2009. By design, a Road Safety Audit Team is designed to be an independent, multidisciplinary group. The SAT was comprised of local officials, members of police and fire departments, concerned citizens, and planning commission, NHDOT, and Federal Highway Administration (FHWA) staff. The SAT received FHWA Road Safety Audit (RSA) training in March prior to conducting a field assessment of the 17 areas of safety concern identified by the Project Advisory Committee in February 2009.

The SAT conducted a corridor-wide assessment during April 26-28 and the preliminary results were shared with Project Advisory Committee (PAC) and consulting engineer, Vanasse Hangen Brustlin (VHB) at a June 25, 2009 public meeting held in Alton. At that meeting, a SAT rating of the leading ten safety concerns along the corridor was presented and discussed. The purpose of this exercise was not to conclude which safety concerns presented the most pressing need in priority order, but to establish a “top ten list” for VHB to examine in greater detail when developing conceptual plans for safety improvements. The initial list of ten priority locations was:

- 1) Peacham/White Oak Road
- 2) North Barnstead/North Road
- 3) Stockbridge Corner Road
- 4) Main Street Chichester
- 5) Epsom Traffic Circle
- 6) Prospect Mountain/Dudley Road
- 7) Leavitt Road
- 8) NH Route 107
- 9) NH Route 126
- 10) Maple Street Barnstead

After committee discussion and public comment, it was decided and agreed upon by the PAC that Kelly Corner and Concord Hill Roads should replace Leavitt Road and Maple Street, since Leavitt Road has other funding for improvements through the Safe Routes to Schools Program and Maple Street pedestrian concerns may be more appropriately addressed off NH Route 28. Further, it was decided that the section of NH Route 28 between Kelly Corner and Concord Hill Roads should serve as a study section suitable for consideration by VHB. Table 3.1 summarizes the SAT findings for each location, and outlines a priority list of locations for which conceptual improvements would be developed by VHB. A detailed summary of results of the SAT field assessment, the *NH Route 28 Road Safety Audit - Preliminary Assessment Results: Assessment Conducted - April 26-28, 2009* is located in Appendix C.

At the June 25 meeting, the intersection of King’s Grant and NH Route 28 in Epsom was raised as a location of significant safety concern by the public. It was determined that planning commission staff would assess this location and include an assessment summary in the project study report. Also discussed was the dangerous curve at the Epsom/Chichester town line which was described as poorly banked when identified as a safety concern at the PAC meeting in February 2009. NHDOT survey staff recently (summer 2009) conducted a review of the cross-level at this location which revealed no engineering concerns.

## Consulting Engineer

After a thorough selection process, Vanasse Hangen Brustlin, Inc. (VHB) was selected by planning commission staff from among eleven New England firms that responded to a request for qualifications (RFQ) to assist in the development of: conceptual safety designs, associated planning level cost estimates, general corridor-wide recommendations, and short, medium, and long-term recommendations for safety improvements at priority locations. To accomplish this, VHB reviewed data collected by the regional planning commissions and the results of the SAT findings; conducted supplemental research; and performed field observations to gain an understanding of the existing deficiencies and safety concerns. Assistance was provided by the SAT, PAC, and regional planning commissions.

In July 2009, VHB engineers conducted a field review observing the physical characteristics of the corridor and more specifically the safety concerns identified by the PAC. This task was performed to confirm the findings of the SAT, as well as to provide an independent review that might generate additional or unique findings. The results of this field work, combined with the other data collection efforts, form the basis for the findings and recommendations outlined in the next two sections of this report. The results are intended to assist the communities and the New Hampshire Department of Transportation (NH DOT) in making informed decisions about where to apply resources to address safety concerns within the corridor.

## Additional Study

With limited funding, it is important to identify strategies that will provide the greatest return on investment. The cost of a strategy is relatively straight forward, but the benefits are often less well understood. Crash reduction factors (CRF) are a tool to help identify the expected benefits of a particular strategy. A CRF is the percentage crash reduction that might be expected to occur at a specific location after implementing a given countermeasure or group of countermeasures. The *Desktop Reference for Crash Reduction Factors* published by the Federal Highway Administration in September 2007 provides estimates of CRF's associated with intersection, roadway departure, and pedestrian crashes. However, in order for CRF's to be estimated for the NH Route 28 corridor, the crash history and detailed crash diagrams must be completed for the "Top 10 Priority Locations" (at a minimum). It is recommended that the crash research and associated analysis for the corridor be completed as the next step, such that the CRF's can then be estimated and used in selecting the most beneficial countermeasures for implementation.

It is important to note that additional detailed data collection, analysis, and engineering design may be necessary to further refine and/or justify the recommendations presented herein.

Table 3.1 Safety Audit Team Findings and Priority Locations

| <p><b>NH Route 28<br/>Corridor<br/>Safety Study</b></p> <p><i>Community Concerns identified by Rt 28<br/>Corridor Advisory Committee<br/>February 10, 2009</i></p> <p><i>Solutions from Rt 28 Safety Audit Team<br/>RSA Conducted April 27-28, 2009</i></p> |                                     | Road Safety Audit Solutions         |                                     |                                  |                                     |                           |                         |                                     |                                     |                                     |                   |                                     |                          |                                     |  |                                     |                               |                                     |                                     |                                     |                                 |                            |           |           |                    |                   |                       |  |                                     |
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|   |                                     | Signage missing / needed            | Updated signage needed              | Sign location improvement needed | Painted lane adjustment             | Improve pavement markings | Address through traffic | Guardrail improvement needed        | Dangerous pavement drop-offs        | Add shoulders                       | Signal adjustment | Access management needed            | Speed enforcement needed | Congestion mitigation               | Add turning lane                       | Redesign - Roadway alignment        | Redesign - Vertical alignment | Redesign - Intersection alignment   | Improve approach to intersection    | Pavement improvements               | Unpermitted use in right of way | Hazard in the right of way | Crosswalk | Sidewalks | Pedestrian signals | Add signalization | Improve signalization | Change passing zone through intersection | Add street lights                   |
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